

REGULATED THERAPEUTIC SUBSTANCES—EFFECTIVE JUNE 6, 2014

Substance	Withdrawal Guideline	Threshold	Route of Administration	Experimental Administration Dosage	Comparison to Existing Regulation
Sedatives					
Acepromazine	48 hours	HEPS - 10 ng/mL of urine	Intravenous	0.05 mg/kg	Current KHRC guideline: 5 days 30 mg IV
Butorphanol	48 hours	Free butorphanol 2 ng/ml of plasma or serum and total butorphanol 300 ng/ml of urine	Intravenous	0.1 mg/kg	Current KHRC guideline: 96 hours
Detomidine (Dormosedan)	72 hours	3-carboxydetomidine 1 ng/mL of urine and LOD in plasma or serum	Sublingual	40 mcg/kg sublingual	Current KHRC guideline: 48 hrs 5 mg IV 72 hrs 20 mg IV
Xylazine (Rompun)	48 hours	0.01 ng/ml of plasma or serum	Intravenous		Current KHRC guideline: 96 hours 500 mg IV
NSAIDs					
Diclofenac (Surpass)	48 hours Restricted Administration time	5 ng/mL in serum	Topical	5" ribbon of Surpass every 12 hours to one site	No change
Firocoxib (Equioxx)	14 days	20 ng/mL in serum	Oral or Intravenous	0.1 mg/kg for 4 days	No change
	48 hours Restricted Administration Time	20 ng/mL in serum		<u>Single</u> .1 mg/kg dose	

Flunixin (Banamine)	24 hours Restricted Administration Time	20 ng/mL in serum	Intravenous	1.1 mg/kg	No change
Ketoprofen (Ketofen)	24 hours Restricted Administration Time	10 ng/mL in serum	Intravenous	2.2 mg/kg	No change
Phenylbutazone	24 hours Restricted Administration Time	2 mcg/mL in serum	Intravenous	4.4 mg/kg	No change
KHRC Regulation permits the use of one of the three (Flunixin, Ketoprofen, Phenylbutazone) at less than 48 hours, but no closer than 24 hours to the scheduled post time of the horse's race. All other NSAIDs must be discontinued no later than 48 hours prior to post time.					
<i>Corticosteroids</i>					
Betamethasone	7 days	10 pg/mL in serum	Intra-articular	9 mg total in one articular space	Current KHRC guideline: 48 hours 35 mg IM
Dexamethasone (Azium)	72 hours	5 pg/mL in serum	Intravenous, Intramuscular, Oral	0.05 mg/kg	Current KHRC guidelines: 48 hrs 25 mg IM/IV single dose, or 10 mg orally once daily for 5 days
Methylprednisolone (Depo Medrol)	7 days	100 pg/mL in serum	Intra-articular	100 mg total in one articular space ¹	Current KHRC guideline: 72 hours for intra-articular administration
For Methylprednisolone at the 100 mg experimental dose, the safe time for administration to meet the 100 pg/mL threshold was 21 days – the 7 day withdrawal time anticipates that protocols vary and a smaller dose may be utilized which may allow plasma concentrations to fall below the threshold more quickly.					

Prednisolone	48 hours	1 ng/ml in serum	Oral	1 mg/kg	Currently no KHRC guidance
Triamcinolone acetonide (Vetalog)	7 days	100 pg/mL in serum	Intra-articular	9 mg total in one articular space	Current KHRC guideline: 72 hours for intra-articular administration
<i>Miscellaneous</i>					
Clenbuterol (Ventipulmin)	14 days	140 pg/mL in urine or LOD in serum	Oral	0.8 mcg/kg	Current KHRC guideline: 72 hours
DMSO	48 hours	10 mcg/mL in serum	Topical or systemic	Up to two ounces	No change
Furosemide	4 hours Restricted Administration Time	100 ng/mL in serum <u>and</u> urine specific gravity < 1.010	Intravenous	500 mg total dose	No change
Glycopyrrolate (Robinol)	48 hours	3 pg/mL in serum	Intravenous	1 mg total dose	KHRC Threshold unchanged; RMTC recommends 48 hour withdrawal and 1 mg dose
Dantrolene (Dantrium)	48 hours	5-OH dantrolene 0.1 ng/mL in serum	Oral	500 mg total dose	No change
Lidocaine	72 hours	20 pg/mL of total 3OH-lidocaine in serum	Subcutaneous	200 mg total dose	Current KHRC guideline: 96 hours
Mepivacaine	72 hours	OH-mepivacaine - 10 ng/mL in urine or mepivacaine at LOD in serum	Subcutaneous	0.07 mg/kg	Current KHRC guideline: 96 hours

Methocarbamol (Robaxin)	48 hours	1 ng/mL in serum	Oral or Intravenous single dose	15 mg/kg	Current KHRC guidelines: 48 hrs, IV dose 72 hrs, 3 g oral 2x /day x 4 days
Omeprazole (Gastrogard)	24 hours	omeprazole sulfide - 1 ng/mL in urine	Oral	3.9 mg/kg	No change
Procaine penicillin**	No administration after entry to race	25 ng/mL in serum	Intra-muscular	17 mg/kg	Current KHRC guideline: 21 days
**Procaine Penicillin also requires: 1. Mandatory reporting of administration 2. Mandatory surveillance at the owner's expense for 6 hours before racing					